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BECHUANALAND



PROTECTORATE.



**MEDICAL AND SANITARY
REPORT
FOR THE YEAR 1961**

c

B E C H U A N A L A N D P R O T E C T O R A T E .

A N N U A L M E D I C A L ,

A N D

S A N I T A R Y R E P O R T .

FOR THE YEAR

1961

SECTION 1 - ADMINISTRATION.

1. STAFF.

DIVISION 1.

- Director of Medical Services.
- 1 Senior Medical Officer.
- 2. Medical Officers of Health (1 C.D. & W.)
- 14 Medical Officers (1 C.D. & W.)

DIVISION II.

- 1 Administrative Assistant
- 3 Health Inspectors
- 2 Field Officers
- 1 Matron
- 1 Sister Tutor
- 4 Sisters-in-Charge
- 10 Nursing Sisters
- 1 Nursing Sister (District)
- 1 Housekeeper
- 2 Clerks
- 1 Senior Lady Clerk
- 2 Lady Clerks (1 C.D. & W.)
- 1 Senior Sanitary Inspector
- 4 Senior Staff Nurses
- 1 Senior Health Assistant

DIVISION III

- 6 Health Assistants
- 10 Clerks (1 C.D. & W.)
- 30 Dispensers (2 C.D. & W.)
- 3 Microscopists (1 C.D. & W.)
- 9 Sanitary Inspectors (1 C.D. & W.)
- 1 Pupil Sanitary Inspector
- 5 Medical Orderlies
- 62 Staff Nurses (1 C.D. & W.)
- 8 Male Nurses
- 1 Senior Male Attendant (Mental Home)
- 5 Male Attendants (Mental Home)
- 3 Female Attendants (Mental Home)
- 16 Motor Drivers (2 C.D. & W.)
- 9 Lorry Labourers (2 C.D. & W.)
- 11 Cooks
- 6 Gardeners
- 1 Storeman
- 4 Rodent Assistants
- 4 Messengers
- 5 Launderers
- 5 Field Assistants
- 8 Sanitary Labourers
- 64 Probationer Nurses (15 C.D. & W.)
- 115 General Duty Assistants (31 C.D. & W.)

MEDICAL OFFICERS.

During the year three doctors resigned including the Medical Officer of Health. Two doctors arrived, including Dr. Standing promoted from Basutoland to the vacant post of Senior Medical Officer. The establishment was increased under a C.D. & W. Scheme by a Medical Officer for Trypanosomiasis control and by an extra Medical Officer of Health. Neither of these posts could be filled. This made a shortage of five Medical Officers in eighteen posts.

NURSING STAFF.

Matron Murch proceeded on leave pending retirement after over twenty years service.

NURSING SISTERS.

Extreme difficulty was experienced in recruiting Sisters for permanent posts with a result that the administration of the hospitals suffered. There would seem to be a dearth of Sisters willing to take on administrative duties. An African Staff Nurse was promoted to the rank of Sister. At the end of the year there were eight vacancies on establishment which were filled however by locum tenens.

SENIOR STAFF NURSES.

These posts are reserved for Nurses with a local qualification only, and were filled.

STAFF NURSES.

No difficulty was experienced in filling establishments. All other posts were filled easily with the exception of Pupil Nurses. The difficulty was to find applicants with the requisite qualifications in general education. This increased the difficulty of running the hospitals.

2. VISITORS.

MISS NIELD	H.Q. British Red Cross, LONDON.
MR. D. DAVIS	Union Health Department, JOHANNESBURG.
MR. J.H. SMITH	Union Health Department, BLOEMFONTEIN.
MR. G.J. THERON	Union Health Department, BLOEMFONTEIN.
DR. KUDICKE	W.H.O., Malaria Assessment Team.
MR. BAGGOTT	W.H.O., Malaria Assessment Team.
DR. CLEMENT	W.H.O., East and South African Republic.
MR. BRAINE	C.R.O., LONDON.
MR. GILLMORE	C.R.O., LONDON.
DR. TRUELSEN	W.H.O., B.C.G., Team.
MISS SMITH	W.H.O., B.C.G. Team.
PROF. MORRIS	UNIVERSITY OF MANCHESTER.
MISS DAHL	W.H.O., B.C.G. Team.
DR. C.H. LEWIS	W.H.O., BRAZZAVILLE.
DR. B.T. SQUIRES	Human Nutrition, Research Unit, M.R.C., LONDON.
MR. MONSON	Colonial Office, LONDON.

SECTION II - PUBLIC HEALTH.

3. STAFF.

DIVISION I.

2 Medical Officers of Health.

DIVISION II.

- 3 Health Inspectors
- 2 Field Officers
- 1 Senior Sanitary Inspector

DIVISION III.

- 2 Health Assistants
- 8 Sanitary Inspectors
- 4 Rodent Assistants
- Daily Paid Labourers.

4. Owing to the shortage of general duty officers, one Medical Officer of Health had to divide his time between Public Health work and general duties in a hospital. The other post of Medical Officer of Health could have been filled by a Medical Officer on the staff but he could not be spared from general duties.

5. The posts of Health Inspector were filled. One by recruitment of a pensioner from overseas and the other by the promotion of the Senior Sanitary Inspector.

6. FINANCE. The Public Health Territorial Estimates 1961/62 remained the same as the previous year but a C.D. & W. grant allowed of some development. Special Anti plague measures were met by Special Warrant.

7. The 1961/62 Territorial Estimates show the following:-

<u>PUBLIC HEALTH.</u>	Actual Expen- diture 1959/60	Estimates 1960/ 1961	Estimates 1961/ 1962	Increase	Decrease.
<u>1. PUBLIC HEALTH MEASURES.</u>	R	R	R	R	R
(a) Insecticides	6,000				
(b) Equipment	900				
(c) Labour	3,000				
(d) Vaccines	900				
(e) Propaganda	200	10,680	11,000	11,000	-
<u>2. SANITATION</u>					
(a) Materials	1,400				
(b) Labour	2,660				
(c) Incidentals	200				
(d) Construction	1,000	5,260	5,260	-	-

Anti-plague Measure Special Warrant.

Provision R2,747

Actual Expenditure R2744.32

C.D. & W. CAPITAL R11,520

Recurrent R2,560

Other Charges R2,040.

8. Under "Capital" a tractor was bought for Sanitation work. Pit latrines were constructed in Peleng Village and work was commenced on the construction of two Cesspit emptiers. Issues of sanitary pails and refuse bins continued.

9. FOOD CONTROL: Food control at purveyor's premises was mainly exercised from the two Divisional Health Offices. Food premises in Francistown, Lobatsi and Gaberones received more assistance with damaged goods and were inspected more frequently than the more distant outstations.

10. MEAT INSPECTION: Meat inspection is now carried on mainly by the Veterinary Department, but this Department still does this work in three or four centres.

11. SALE OF MILK: Control is legalised by regulations under Chapter 129 of the Laws of Bechuanaland (1959) as an Agricultural Department function. The premises of food vendors and the solid or preserved food stocks held in them received adequate attention from members of the Public Health section in Francistown and Lobatsi. There was less control by Medical Department staff in Gaberones, Serowe, Mahalapye, Palapye and Maun. The Veterinary Research Officer undertook inspection of dairy herds in the Southern Division and the Dairy Officer in the Agricultural Department undertook examination of milk in township dairies.

12. HOTELS: Restaurant premises and facilities for the sale of liquor at hotels continued to be inspected. Inspection of hotels, shops and other buildings in the Northern Division was carried out by one Health Inspector at Francistown. The hotels of N'gamiland were reported on by the Medical Officer at Maun who took over the duty of inspecting the N'gamiland and Chobe hotels in addition to his own very exacting work. These duties were carried out in the Southern Division by the Health Inspector, Lobatsi.

13. VILLAGE CLEANSING SERVICES: In 1960/61 these consisted of refuse and night soil removal and disposal at the main district stations. At Lobatsi the Medical Department is taking over more responsibility every year. At Francistown the Tati Company runs a public utility service.

14. THE QUARANTINABLE DISEASES OF INTERNATIONAL SANITARY REGULATIONS.

PLAGUE: Early in the year there were rumours of suspected human plague in a neighbouring Territory. Investigations showed a great increase in the rodent population in certain areas of this Territory with a low flea count. As a precaution against human plague all human habitations were dusted. No cases of human or rodent plague occurred.

CHOLERA: No case of cholera occurred during 1961.

YELLOW FEVER: No case of Yellow Fever occurred during the year.


SMALL POX: During the year 36 cases of Smallpox were reported. Most of the cases were isolated cases and each case was made the focus of a vaccination campaign. 16,841 People were vaccinated.

RELAPSING AND TYPHUS FEVERS: No cases were reported during 1961.

Other diseases of Public Health interest:-

15. POLIOMYELITIS: Oral vaccination against this disease was continued. Five cases were reported during the year.

CHICKEN POX: This disease was present throughout the year and 370 cases were reported.



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CEREBRO-SPINAL MENINGITIS: No cases were reported during the year.

DIPHTHERIA: This disease was fairly wide spread but no severe epidemic occurred: 117 cases were proven with 23 deaths. Just under 12,000 people were protected against this disease during the year.

MEASLES: This disease was fairly wide spread : over 700 cases were reported.

WHOOPING COUGH: 1860 Cases of Whooping Cough were reported. The disease was fairly wide spread. Only one death was reported.

INFLUENZA: There was an increase in the number of cases of Influenza reported during the year : 4,000 this year as against 2,000 last year. One death was reported.

TUBERCULOSIS: This disease continued to be reported frequently throughout the Territory. In November a World Health Organization team carried out a limited B.C.G. Campaign and instructed local personnel in procedures.

ANTHRAX AND RABIES: Three cases of Anthrax were reported. None died. One fatal case of rabies was reported.

BILHARZIA: Bilharzia investigations were very limited this year because the staff usually employed in this work were seconded to the W.H.O., B.C.G. Campaign and to the W.H.O. Malaria survey team. Only 74 specimens of urine were examined for eggs : 42% proved to be positive.

MALARIA: The rainfall was higher than usual throughout the Territory in 1961 and conditions were very favourable for Gambia breeding. Cases of malaria were reported from all stations. Many cases of acute illness were reported in the Southern Division.

A team was sent to take films, spray huts and to distribute cloroquin tablets. A summary of the blood film survey can be seen at Appendix C. 6847 Cases were reported in the Territory: 825 Cases were admitted to hospital : 22 cases died in hospital. A World Health Organization team started work in the Territory. They were stationed at Francistown.

TRYPANOSOMIASIS: This was contained in the N'gamiland and Chobe swamp areas and their associated forests. There was a total of 76, and five deaths.

SECTION 111 - VITAL STATISTICS.

TABLE 1.

16. POPULATION STATISTICS.

EUROPEANS	..	..	..	..	..	..	3,174	+
AFRICANS	..	..	..	..	..	..	292,755	≠
ASIATICS	..	..	..	..	..	..	248	+
COLOURED	..	..	..	..	..	..	676	+
TOTAL POPULATION..							<u>296,853</u>	

+ 1956 Census.

≠ 1946 Census.

TABLE 11.

EUROPEAN BIRTHS AND DEATHS.

BIRTHS	131
Births per 1,000	41
Deaths over 1 year of age	13
Deaths under one year of age	-
Deaths per 1,000	4.1

(There is no compulsory registration of the Births and Deaths of Africans.)

TABLE 111.

CAUSES OF EUROPEAN DEATHS.

Accidental Shooting	1
Arterio Sclerotic Heart Disease	1
Congestive Cardiac failure	2
Coronary Thrombosis	3
Gunshot wound of head	1
Intestinal obstruction	1
Peritonitis	1
Post partum haemorrhage	1
Post traumatic shock.. .. .	1
Senility	1
	<u>13</u>

TABLE 1V.

17. SICKNESS AMONG GOVERNMENT OFFICIALS.

Accidental Injury	50
Acute nephritis	4
Acute Theumatism	1
Adenitis	1
Amoebiasis	2
Appendicitis	11
Asthma	5
Benign tumors	2
Bronchitis	6
Brucellosis	1
Cellulitis	11
Cystitis	1
Chloecystitis	1
Diphtheria	1
Duodenal Ulcer	1
Enteritis	14
Epilepsy	3
Fibrositis	3
Gastritis	6
Gynaecological	3
Haemorrhoids	1
Hernia	6
Herpes Zoster	1
Hepatitis (infective)	3
Hyperpiesis	1
Influenza	32
Laryngitis	1
Malaria	6
Mumps	1
Neuraesthesia	5
Osteorthritis	3
Onyali	1
Pleurisy	2
Pneumonia	4

Carried forward 194

17. SICKNESS AMONG GOVERNMENT OFFICIALS. CONTINUED.

Brought forward	194
Psychosis	1
Pulmonary Tuberculosis	3
Pyelitis	7
Pyrexia of unknown origin	7
Respiratory Catarrh.. .. .	14
Sinusitis	2
Skin diseases	5
Sleeping Sickness	1
Snake Bite	1
Tick Bite Fever.. .. .	6
Tonsillitis.. .. .	8
Varicose Veins	1
	<u>250</u>

18. SECTION IV - MATERNITY AND CHILD WELFARE.

3,608 Uncomplicated births were recorded in the various hospitals and Health Centres during the year. 593 Complicated births and 216 cases of abortion or miscarriage were recorded. Ante-natal attendances numbered 21,296, a decrease of 1,770 compared with 1960. Post-natal attendances numbered 1,443 a decrease of 2,900 compared with the previous year. Child Welfare attendances dropped by 975 from the previous year : 2,008 were recorded.

SECTION V - HOSPITALS AND DISPENSARIES.

19. OUT-PATIENTS. The total number of out-patients recorded was 233,329 of which number 96,763 were first attendances. Other attendances for vaccination, inoculation, examinations, etc., came to 237,747. The total attendances therefore came to 471,076.

20. IN-PATIENTS. 18,713 Patients were treated in hospital during the year. The number of beds and cots available at the end of 1961 was 955, an increase of 121. The number of cots available was 206, an increase of 53. Beds and cots were distributed as follows:-

	<u>BEDS.</u>	<u>COTS.</u>
FRANCISTOWN	118	47
GABERONES	44	9
GHANZI	36	3
KANYE (S.D.A. MISSION)	117	6
KASANE	8	-
KHALE (R.C.MISSION)	4	-
LOBATSI	161	24
MADINARE (ANGLICAN CHURCH MISSION)	40	8
MAHALAPYE	46	16
MAUN	73	10
MAUN MATERNITY CENTRE (L.M.S.)	14	10
MOCHUDI (D.R.C.MISSION)	53	14
MOCHUDI	8	2
MOLEPOLOLE (U.F.CHURCH OF SCTLAND MISSION)	78	20
RAKOPS	8	4
RAMOUTSA (HERMANNSBURG MISSION)	33	3
SEROWE	106	30
TSHABONG	8	-
	<u>955</u>	<u>206</u>

Work has commenced with Colonial Development and Welfare Funds on the new S.D.A. Hospital at Kanye.

21. HEALTH CENTRES AND DISPENSARIES. A Health Centre was built and equipped at Kasane. A Dispensary was built at Gweta. Resident dispensers and/or Staff Nurses are now established at the following centres:-

GOOD HOPE	PILIKWE
KALKFONTEIN (CLOSED TEMPORARILY)	RAKOPS
KASANE	SEFHOPE
MACHANENG	SHAKAWE
MOTHOBODUKWANE (CLOSED TEMPORARILY)	SHOSHONG
NOKANENG	TOTOME
PALAPYE	TSHABONG
	TSAU.

Dispensaries are established at the following centres and visited by a Medical Officer or an African Dispenser:-

ARTESIA	MOMONO
BOBONONG	MOENG
BOKSPITS	MOOKANE
DIKGATLONG	NOJANE
GABANE	PANDAMATENKA
GOMARE	SATAU
KACHIKAU	SEFHARE
KALAMARE	SEHITWA
KARAKOBIS	SEQUANI
KHUMUKWANE	SEPOPA
KULI	SERONGA
MAKALAMABEDI	WERDA.
MAKINDA.	

22. MISSION HOSPITALS: There are three Mission Hospitals at Kanye, Molepolole and Mochudi; a Maternity Centre at Maun and two Health Centres at Madinare and Ramoutsa. Mission dispensaries with resident Dispensers or Nurses are established at the following places:-

KHALE (R.C.)	TOMAGA (U.F.C.)
MOSHUPA (S.D.A.)	TONOTA (ANGLICAN)
RAMOUTSA (R.C.)	TSHANE (S.D.A.)

The following centres are visited periodically by Mission doctors or Sisters:-

DIGAWANA	MMANKGODI
DUTLWE	MAPOKAS
HUKUNTSE	MMATHETHE
KLAARTLWE	MOGEMANI
KAKIA	MOGOBANE
KUKONG	MOSHANENG
LEHUTUTU	MOTOKWE
LEPHEPHE	NGWARE
LETLAKENG	NTSWELATAU
LOKWEBE	OOTSII
MAGWERAPITSE	RANAKA
MOLOJANE	SALAJWE
MANYANA	SERULI
MAKALAMABEDI	TSETSENG

The total number of Government and Mission Medical Centres, made up of hospitals, health centres, and dispensaries, has increased in the last year from 89 to 92.

23. Government subsidies are payable to Missions subject to their entering into an agreement on the following lines:-

- (a) The acceptance of the subsidy shall confer upon Government the right to inspect all hospitals and Mission centres and to obtain any return or report which the Director of Medical Services may from time to time require.
- (b) The Mission shall be engaged in bona fide medical Mission work amongst Africans and offer medical facilities regardless of ability to pay to all Africans seeking treatment.
- (c) There shall be continuous superintendence by a registered medical practitioner, or a full time registered or certificated nurse will be provided.
- (d) The Director of Medical Services may refuse to accept for subsidy purposes any staff (including Probationer Nurses) which he may consider excessive, it being understood that Probationer Nurses will not be subsidised except where in attendance at recognised training centres.
- (e) A subsidy will only be payable in the case of a new or extended hospital, health centre or clinic provided the Director of Medical Services is satisfied that its establishment or extension in the area proposed is necessary.

The following Subsidy rates apply:-

Medical Officer	R940 p.a.
European registered Nurse with General and Midwifery Certificates	R214 p.a.
European registered Nurse with Medical and Surgical Certificate	R150 p.a.
European registered Nurse with Midwifery Certificate	R150 p.a.
African doubly-certificated Executive Nursing Committee Nurse	R50 p.a.
Probationer Nurse	R24 p.a.
African registered Nurse holding both General and Midwifery Certificates	R100 p.a.
African registered Midwife	R70 p.a.
Annual per bed subsidy	R20 p.a.
Out-patient grant at 5c per patient to a Maximum of	R300 p.a.

SECTION VI - GENERAL.

24. AFRICAN LABOUR RECRUITMENT. The total number of recruits examined and attested in the Territory was 20,973. The number of recruits airlifted to and from Barotseland, Nyassaland and Shakawe through Francistown was 114,218 which entailed flying 1,422,381 accident free air miles. 1,633 Applicants were rejected for employment mainly because they were too young, of poor Physique or suffered from chronic respiratory complaints.

25. MEDICAL EXAMINATION ON FIRST APPOINTMENT: to Government Services totalled 420.

26. OPERATIONS: 946 Major operations and 3,815 minor operations were performed during the year.

27. X-RAYS: 4,294 X-Ray examinations were conducted.

28. OPHTHALMOLOGICAL CLINIC: The Clinic continued to function at Serowe.

29. NURSING EXAMINATIONS: The results of the 1961 Nursing Examinations were as follows:-

<u>EXAMINATION.</u>	<u>NUMBER OF CANDIDATES.</u>	<u>NUMBER OF PASSES.</u>
High Commission Territories Nursing Council Preliminary - Medical and Surgical	11	5
Bechuanaland Protectorate Executive Nursing Committee Preliminary - General Medical and Surgical	25	20
Bechuanaland Protectorate Executive Nursing Committee - Final General Medical and Surgical	20	19
Bechuanaland Protectorate Executive Nursing Committee - Midwifery.	10	9

30. PRISONS: At the Central prison at Gaberones the work rooms have been kept busy making mail bags, clothing, tents, etc. Regular weekly prison inspections were carried out at all stations where a Medical Officer is available. Prisoners report sick to the Dispensaries daily. 5,185 Prisoners reported sick during the year. 67 Were admitted to hospital and three died in hospital from various causes. The general health of the prisoners were good however, and the proportion in hospital was less than 1%.

31. CAPITAL WORKS: Under C.D. & W. Scheme D.3067 a dispensary was completed at Gweta and work was commenced on alterations and additions to wards at Serowe and Lobatsi Hospitals.

Under C.D. & W. Scheme D. 3986 2x3 ton vehicles were bought for the W.H.O. B.C.G. pilot scheme.

Under C.D. & W. Scheme 3949 fences were erected round the Health Centre at Mochudi and the dispensary at Mothobudukwane.

Under Scheme D. 4639 work was commenced on the following extension to Mental Home, Lobatsi, conversion of house into Laboratory, Maun, extension of Eurafrican ward, Francistown. Alterations and extensions, Francistown. Kit-room, Mahalapye.

A Building Grant was given to the S.D.A. Mission, Kanye, to help replace the services of the Moffat Hospital.

Compensation was paid to the United Free Church of Scotland for buildings taken over by Government at Kanye. A vehicle and laboratory equipment was purchased for Trypanosomiasis control.

Under "Sanitation" two cess-pitt emptiers were built, latrines erected in Peleng Village, Lobatsi, a fence erected round the new graveyard, Lobatsi, and a Tractor purchased.

32. WORLD HEALTH ORGANIZATION. W.H.O. sent a Malaria Survey team to the Territory. This team continued to work throughout the year.

W.H.O. sent a team to run a Pilot B.C.G. Campaign. The campaign was successful and a team of local personnel was trained to continue the work.

33. FINANCE. The total revenue from Government hospitals, Health Centres, and Dispensaries during 1961 amounted to R33,189.96, an increase of R1,810.35 over 1960.

The total ordinary expenditure of the Department for the financial year ended 31st March, 1961, was as follows:-

	R.
Personal Emoluments	217,853
Upkeep of Hospitals and Dispensaries	147,563
Maintenance of Lunatics	6,341
Pathological Investigations	3,471
Grants to Missions and Union Hospitals	17,820
Public Health Measures	8,826
Sanitation	2,517
Plague Control	2,744
Office and Incidental Expenses	760
Travelling and Transport	36,084
Purchase of Vehicles and Bicycles.	<u>2,356</u>
TOTAL	<u><u>R446,335</u></u>

The total ordinary revenue of the Bechuanaland Protectorate during the period 1960/61 was R3,283,841 and the proportion of ordinary medical expenditure to ordinary revenue of the Territory was 13.5%. The total ordinary expenditure of the Protectorate during the period 1960/61 was R5,763,086 and the proportion of ordinary medical expenditure to ordinary expenditure of the Protectorate was just over 7.7%.

Once again it is my privilege to acknowledge the loyalty and devotion to duty of the staff of this Department and to thank all those who assisted the Department during the year.

W.R. GEMMELL.

DIRECTOR OF MEDICAL SERVICES.

MAFEKING.

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A P P E N D I C E S.

- A. Smallpox Vaccination Figures.
- B. Bilharzia Survey Notes.
- C. Malaria Survey Notes.
- D. Territorial Nosological Return.

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NUMBER OF SMALLPOX VACCINATIONS CARRIED OUT
DURING 1961.

APPENDIX "A".

<u>MAUN</u> AND DISTRICT	3,450
<u>MAHALAPYE</u> AND DISTRICT	7,685
<u>LOBATSI</u> AND DISTRICT	1,088
<u>MOLEPOLOLE</u> AND DISTRICT	4,000
<u>FRANCISTOWN</u> AND DISTRICT	136
<u>GABERONES</u> AND DISTRICT	45
<u>RAKOPS</u> AND DISTRICT	163
<u>MOCHUDI</u> AND DISTRICT	2
<u>KANYE</u> AND DISTRICT	<u>272</u>
T O T A L.	<u><u>16,841</u></u>

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APPENDIX "B".

BILHARZIA SURVEY 1961 - SOUTHERN DIVISION.

Results of tests for S. haematobium eggs
and for blood in urine.

DATE.	NAME OF PLACE TAKEN	NUMBER OF SPECIMENS	EGGS IN URINE		PERCENTAGE
			POS.	NEG.	
17/4/61	St. Theresa's Mission, School, <u>LOBATSI</u> .	24	8	16	33 $\frac{1}{3}$ %
26/11/61	Linthere School, <u>MOCHUDI</u> .	50	26	24	50%

APPENDIX "C"

MALARIA SURVEY 1961 - SEROWE AND SOUTHERN DIVISION.

RESULTS OF BLOOD SLIDE AND SOLEEN TEST.

DATE TAKEN	NAME OF PLACE TAKEN.	NUMBER TAKEN	BLOOD SMEARS.		REMARKS.
			NO. POSITIVE	NO. NEGATIVE	
24/4/61	MOLEPOLOLE	13	10	3	} High incidence of illness
28/4/61	KUMAKWANE	35	25	10	
14/5/61	LETLAKENG AREA	81	22	59	
5/5/61	WERDA	35	4	31	
6/5/61	TSHABONG	25	-	25	
15/6/61	SEKUMA PAN	26	1	25	
19/6/61	TSHANE	23	1	22	
20/6/61	LEHUTUTU	7	-	7	
21/6/61	HUKUNTSI	17	2	15	
25/6/61	KANG	13	9	4	

RETURN OF DISEASES, INJURIES AND CASUES OF DEATH FOR THE YEAR 1961.

OUT-PATIENTS.

IN-PATIENTS.

DISEASES.	x Remaining in Hospital at end of 1960	Yearly Admissions	Total Deaths	=Total cases Treated	Remaining	
					in Hospital at end of 1961	Male Female.
1. A.	210	849	68	1059	270	847 773
1. Tuberculosis of respiratory system.....	1	14	6	15	-	11 5
2. Tuberculosis of meninges and central nervous system.						
3. Tuberculosis of intestines, peritoneum and mesentric glands	2	43	2	45	5	120 175
4. Tuberculosis of bones and joints.....	10	86	3	96	18	63 74
5. Tuberculosis, all other forms.....	8	103	6	111	13	194 174
6. Congenital syphilis	-	14	3	14	-	390 420
7. Early syphilis.....	-	25	-	25	1	598 784
8. Tabes dorsalis.....	1	-	-	1	-	- -
9. General paralysis of insane.....	-	-	-	-	-	- -
10. All other syphilis.....	-	43	-	43	1	600 1080
11. Gonococcal infections.....	4	96	-	100	1	7772 11,217
12. Typhoid Fever.....	1	14	1	15	5	14 7
13. Paratyphoid fever and other Salmonella infections...	-	-	-	-	-	5 3
14. Cholera.....	-	-	-	-	-	1 -
15. Brucellosis (undulant fever).....	-	2	-	2	-	1 -
16. (a) Bacillary dysentery.....	1	21	5	22	1	280 258
(b) Ameobiasis.....	-	40	4	40	1	49 48
(c) Other unspecified forms of dysentry.....	-	19	2	19	-	228 261
17. Scarlet Fever.....	-	-	-	-	-	2 2
18. Streptococcal sore throat.....	1	74	-	75	1	920 1,668
19. Erysipelas.....	-	1	-	1	-	2 1
20. Septicaemia and pyaemia.....	-	19	3	19	1	5 9
21. Diphtheria.....	-	117	23	117	-	82 104
22. Whooping Cough.....	1	35	1	36	1	584 740
23. Meningococcal infections.....	-	8	2	8	-	1 3
24. Plague.....	-	-	-	-	-	- -

TOTAL CARRIED FORWARD/.....

240 1,623 1 29 1,863 319 12,766 17,806

DISEASES	IN-PATIENTS.			OUT-PATIENTS.			
	Remaining in Hospital at end of 1960	YEARLY Admissions	Total Deaths	+Total cases treated	Remaining in Hospital at end of 1961	Male	Female
2.	240	1,623	129	1,863	319	12,766	17,806
25. Leprosy	1	21	1	22	2	22	22
26. Tetanus	1	7	4	8	1	5	3
27. Anthrax	-	2	-	2	-	3	2
28. Acute poliomyelitis	-	4	-	4	-	5	-
29. Acute infectious encephalitis	-	2	2	2	-	3	5
30. Late effects of acute poliomyelitis and acute infectious encephalitis	3	8	-	11	1	12	9
31. Smallpox	-	3	-	3	-	13	20
32. Measles	3	83	-	86	6	323	382
33. Yellow Fever	-	-	-	-	-	-	-
34. Infectious hepatitis.. .. .	-	40	1	40	1	45	34
35. Rabies	-	1	1	1	-	-	-
36. (a) Louse-borne epidemic typhus.. .. .	-	-	-	-	-	1	-
(b) Flea-borne epidemic typhus (Murine).. .. .	-	-	-	-	-	-	-
(c) Tick-borne epidemic typhus	-	-	-	-	-	-	-
(d) Mite-borne typhus	-	-	-	-	-	-	-
(e) Other and unspecified typhus	-	-	-	-	-	-	-
37. (a) Vivax malaria (benign tertian)	-	34	2	34	-	69	70
(b) Malariae malaria (quartan)	-	-	-	-	-	-	-
(c) Falciparum malaria (malignant tertian)	5	549	15	554	2	3,029	3,135
(d) Blackwater fever	-	-	-	-	-	-	-
(e) Other and unspecified forms of malaria	-	142	5	142	-	300	244
38. (a) Schistosomiasis vesical (S. haematobium).. .. .	-	16	1	16	-	166	111
(b) Schistosomiasis intestinal (S. mansoni)	-	-	-	-	-	-	-
(c) Schistosomiasis pulmonary (S. japonicum).. .. .	-	1	-	1	-	2	4
(d) Other and unspecified schistosomiasis	-	2	-	2	-	5	2
39. Hydatid disease	-	-	-	-	-	-	-
40. (a) Onchocerciasis	-	-	-	-	-	-	-
(b) Loiasis	-	-	-	-	-	-	-
(c) Filariasis (bancrofti)	-	1	-	1	-	1	-
(d) Other filariasis	-	-	-	-	-	1	-
Total carried forward..	253	2,539	161	2,792	333	16,777	21,853

Remaining
in
Hospital
at the end
of 1960

Remaining
in
Hospital
at end
of 1961

Total
Deaths.
Total
cases
treated

YEARLY
Admissions

Male
Female

DISEASES.

4.

	Brought forward	264	2,764	170	3,028	339	18,198	23,612
47. Malignant neoplasm of intestine, except rectum	-	5	1	5	-	1	2
48. Malignant neoplasm of rectum	-	1	-	1	-	-	1
49. Malignant neoplasm of larynx	-	-	-	-	-	-	1
50. Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary	-	2	-	2	-	-	-
51. Malignant neoplasm of breast	-	6	2	6	-	1	1
52. Malignant neoplasm of cervix uteri	2	18	1	20	-	-	22
53. Malignant neoplasm of other and unspecified parts of uterus	-	12	4	12	-	-	21
54. Malignant neoplasm of prostate	-	1	-	1	-	7	1
55. Malignant neoplasm of skin	-	15	1	15	1	15	11
56. Malignant neoplasm of bone and connective tissue	-	9	2	9	-	-	5
57. Malignant neoplasm of all other and unspecified sites	2	23	3	25	1	12	20
58. Leukaemia and aleukaemia	-	1	-	1	-	1	2
59. Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system	-	6	1	6	-	1	3
60. Benign neoplasms and neoplasms of unspecified nature	4	174	1	178	8	89	357
61. Nontoxic goitre	-	-	-	-	-	1	7
62. Thyrotoxicosis with or without goitre	-	-	-	-	-	-	6
63. Diabetes mellitus	-	7	-	7	-	10	18
64. (a) Beri-beri	-	13	-	13	-	26	18
(b) Pellagra	2	20	3	22	-	429	831
(c) Scurvy	1	24	-	25	1	394	755
(d) Other deficiency states	10	139	17	149	12	1534	1930
Carried forward	285	3,240	206	3,525	362	20,719	27,615

DISEASES.

		Forward	285	3,240	206	3,525	362	20,719	27,615
		(3/Forward							
5.	65.(a) Pernicious and other hyper chronic anaemias .. .. .	.. .. .	-	13	1	13	-	-	15
	(b) Iron deficiency anaemias (hypochromic ..	..	-	20	-	20	-	124	573
	(c) Other specified and unspecified								
	anaemias .. .. .	.. .. .	1	36	1	37	-	355	835
66.	(a) Asthma .. .. .	.. .. .	3	106	1	109	2	796	971
	(b) All other allergic, disorder, endocrine, metabolic and blood diseases .. .. .	.. .. .	1	70	5	71	2	539	750
67.	Psychoses .. .. .	.. .. .	1	32	2	33	-	27	44
68.	Psychoneuroses and disorders of personality..	..	1	19	1	20	1	102	159
69.	Mental deficiency .. .. .	.. .. .	-	8	-	8	-	17	15
70.	Vascular lesions affecting central nervous system .. .. .	.. .. .	1	39	8	40	1	29	25
71.	Nonmeningococcal meningitis.. .. .	.. .. .	-	19	9	19	-	5	10
72.	Multiple sclerosis .. .. .	.. .. .	-	-	-	-	-	-	-
73.	Epilepsy .. .. .	.. .. .	3	37	-	40	2	91	76
74.	Inflammatory diseases of eye .. .. .	.. .. .	2	166	-	168	1	2977	3802
75.	Cataract .. .. .	.. .. .	1	54	-	55	6	59	61
76.	Glaucoma .. .. .	.. .. .	-	38	-	38	1	28	48
77.	(a) Otitis externa.. .. .	.. .. .	-	8	-	8	-	355	398
	(b) Otitis media and mastoiditis .. .. .	.. .. .	1	54	-	55	-	967	1201
	(c) Other inflammatory diseases of ear .. .. .	.. .. .	1	3	-	4	-	188	223
78.	(a) All other diseases and conditions of eye. .. .. .	.. .. .	-	80	1	80	1	603	746
	(b) All other diseases of the nervous system and sense organs .. .. .	.. .. .	-	28	1	28	2	497	621
79.	Rheumatic fever .. .. .	.. .. .	2	32	1	34	1	38	45
80.	Chronic rheumatic heart disease.. .. .	.. .. .	2	49	7	51	5	66	135
81.	Arteriosclerotic and degenerative heart disease .. .. .	.. .. .	3	67	13	70	3	76	82
82.	Other disease of heart .. .. .	.. .. .	6	50	10	56	1	193	502
	Carried forward/....	.. .. .	314	4,268	267	4,582	391	28,851	38,960

DISEASES.		YEARLY Admissions	Total Deaths	+Total cases treated	≠ Remaining in Hospital at end of 1961	Male.	Female.
		in Hospital at end of 1960					
6.	Brought forward/...	314	267	4,582	391	28,851	38,960
83.	Hypertension with heart disease ..	1	2	11	-	47	45
84.	Hypertension without mention of heart ..	-	2	55	-	47	155
85.	Diseases of arteries ..	1	-	12	-	4	17
86.	Other diseases of circulatory system ..	1	1	36	4	154	161
87.	Acute upper respiratory infections..	2	2	236	4	5876	7441
88.	Influenza ..	2	1	209	3	1822	2012
89.	Lobar pneumonia. ..	3	6	294	2	376	362
90.	Bronchopneumonia ..	4	25	312	3	678	701
91.	Primary atypical, other and unspecified pneumonia..	2	6	82	1	171	191
92.	Acute bronchitis ..	7	3	297	4	4527	5536
93.	Bronchitis, chronic and unqualified.	1	4	178	8	3155	4058
94.	Hypertrophy of tonsils and adenoids.	-	-	88	1	840	1158
95.	Epyema and abscess of lung ..	-	1	12	1	7	8
96.	Pleurisy ..	1	-	33	1	37	41
97.	(a) Pneumoconiosis ..	-	-	-	-	2	-
	(b) All other respiratory diseases.	2	-	76	4	1085	1013
98.	(a) Dental caries..	-	-	16	-	1546	2446
	(b) All other diseases of teeth and supporting structures..	-	-	42	-	540	792
99.	Ulcer of stomach ..	-	-	8	-	68	96
100.	Ulcer of duodenum ..	-	-	3	-	15	14
101.	Gastritis and duodenitis ..	2	1	89	-	1067	1657
102.	Appendicitis ..	3	2	65	1	40	35
103.	Intestinal obstruction and hernia ..	3	5	55	3	223	140
104.	(a) Gastro-enteritis and colitis between 4 weeks to 2 years ...	9	38	372	3	4694	5215
	(b) Gastro-enteritis and colitis, ages 2 years and over ..	-	6	161	1	2073	2588
	(c) Chronic enteritis and ulcerative colitis ..	3	2	55	-	212	214
	Carried forward/....	361	374	7,379	435	58,157	75,019

DISEASES.									
	Remaining in Hospital at end of 1960	YEARLY Admissions	Total Deaths	+Total cases treated	≠ Remaining in Hospital at end of 1961	Male	Female.		
7.	361	7,018	374	7,379	435	58,157	75,013		
Brought forward/..	..	..	..	..	..	..	..
105. Cirrhosis of liver ..	2	18	-	20	1	16	15		
106. Cholelithiasis and cholecystitis ..	1	9	-	10	-	10	49		
107. Other diseases of digestive system ..	6	160	6	166	7	6118	10225		
108. Acute nephritis ..	-	28	4	28	1	21	14		
109. Chronic, other and unspecified nephritis ..	-	50	2	50	1	54	32		
110. Infections of kidney ..	1	28	2	29	1	248	370		
111. Calculi of urinary system ..	-	8	-	8	-	42	57		
112. Hyperplasia of prostate ..	-	9	1	9	-	12	-		
113. Diseases of breast ..	1	52	-	53	1	32	526		
114. (a) Hydrocele ..	1	24	-	25	-	156	1		
(b) Disorders of menstruation ..	2	120	-	122	1	-	6562		
(c) All other disease of the genito-urinary system ..	13	425	9	443	11	2059	4841		
115. Sepsis of pregnancy, childbirth and the puerperium ..	1	66	1	67	-	-	133		
116. Toxaemias of pregnancy and the puerperium ..	-	42	-	42	-	-	62		
117. Haemorrhage of pregnancy and childbirth ..	2	91	2	93	-	-	100		
118. Abortion without mention of sepsis or toxæmia ..	2	195	-	197	4	-	422		
119. Abortion with sepsis ..	1	21	-	22	-	-	19		
120. (a) Other complications of pregnancy, childbirth and puerperium ..	8	394	8	402	5	-	4356		
(b) Delivery without complications ..	54	3337	-	3391	56	-	4035		
121. Infections of skin and subcutaneous tissue ..	12	466	3	478	12	5401	6511		
122. Arthritis and spondylitis ..	6	54	-	60	4	764	835		
123. Muscular rheumatism and rheumatism, unspecified ..	-	136	-	136	2	7642	10133		
Carried forward/..	479	12,751	412	13,230	542	80,732	124,421		

DISEASES.		Remaining in Hospital at end of 1960.	YEARLY Admissions	Total Deaths	+Total cases treated	=Remaining in Hospital at end of 1961	Male	Female.
8.	Brought forward/.. .. .	479	12,751	412	13,230	542	80,732	124,421
124.	Osteomyelitis and periostitis ..	4	54	-	58	4	51	52
125.	Ankylosis and acquired musculo- skeletal deformities.	1	6	-	7	-	76	47
126.	(a) Chronic Ulcer of Skin (including tropical ulcer) ..	-	42	-	42	-	154	229
	(b) All other diseases of skin ..	-	43	-	43	2	3162	3420
	(c) All other diseases of muscu- loskeletal system	1	57	-	58	-	1052	572
127.	Spina bifida and meningocele ..	-	3	1	3	-	1	3
128.	Congenital malformations of circulatory system	-	3	-	3	-	10	5
129.	All other congenital malformations	-	40	2	40	-	28	37
130.	Birth injuries	-	8	3	8	-	4	13
131.	Postnatal asphyxia and atelectasis	-	21	13	21	-	64	47
132.	(a) Diarrhoea of newborn (under 4 weeks)	-	12	-	12	-	91	79
	(b) Ophthalmia neonatorum .. .	-	-	-	-	-	9	21
	(c) Other infections of newborn..	1	11	2	12	-	74	86
133.	Haemolytic disease of newborn ..	-	4	1	4	-	8	11
134.	All other defined diseases of early infancy	13	1044	29	1057	13	657	720
135.	Ill-defined diseases peculiar to early infancy and immaturity, unqualified	-	31	13	31	4	433	557
136.	Senility without mention of psychosis	2	17	3	19	1	44	55
	Carried forward/.. .. .	501	14,147	479	14,648	566	86,650	130,375

		IN-PATIENTS.				OUT-PATIENTS.		
		Remaining in Hospital at end of 1960.	YEARLY Admissions	Total Deaths	+Total cases treated	+Remaining in Hospital at end of 1961	Male	Female.
DISEASES.								
137.	(a) Brought forward	501	14,147	479	14,648	566	86,650	130,375
	(b) Pyrexia of unknown origin ..	2	67	4	69	1	487	454
	(c) Observation, without need for further medical care ..	35	2492	-	2527	49	1449	1609
	All other ill-defined causes of morbidity	1	89	2	90	3	1680	1575
ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSE).								
138.	Motor Vehicle accidents	1	69	4	70	2	160	53
139.	Other transport accidents.. ..	2	55	3	57	3	125	53
140.	Accidental poisoning	-	42	1	42	-	52	48
141.	Accidental falls.. ..	10	156	1	166	4	546	382
142.	Accident caused by machinery	2	40	-	42	-	59	13
143.	Accident caused by fire and explo- sion of combustible material.. ..	8	120	10	128	6	565	510
144.	Accident caused by hot substance, corrosive liquid, steam and radiation.	3	22	-	25	1	223	262
145.	Accident caused by firearm	-	6	-	6	-	11	3
146.	Accidental drowning and submersion.	-	3	-	3	-	-	1
147.	Foreign body entering eye and adnexa	1	16	-	17	-	170	111
	Foreign body entering other orifice .. .	-	32	-	32	-	196	151
	Accidents caused by bites and stings of venomous animals and insects	2	111	-	113	4	266	208
	Other accidents caused by animals ..	3	75	-	78	1	294	66
	All other accidental causes. . . .	7	466	4	473	24	2200	1132
	Carried forward/.. ..	578	18,008	508	18,586	664	95,133	137,006

		IN-PATIENTS.			OUT-PATIENTS.		
DISEASES.		Remaining in Hospital at end of 1961	YEARLY Admissions	Total Deaths	+Total cases treated	+Remaining in Hospital at end of 1961	Male Female.
10.							
	Brought forward	578	18,008	508	18,586	664	95,133 137,006
148.	Suicide and self inflicted injury	-	6	-	6	1	14 6
149.	Homicide and injury purposely inflicted by other persons (not in war)	2	119	4	121	6	639 530
150.	Injury resulting from operations of war.	-	-	-	-	-	1 -
	TOTAL	580	18,133	512	18,713	671	95,787 137,542

